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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/802,886	03/12/2001	Yuuichi Hirano	204612US2	5686
22850 7	590 11/08/2002		•	
OBLON SPIVAK MCCLELLAND MAIER & NEUSTADT PC FOURTH FLOOR 1755 JEFFERSON DAVIS HIGHWAY			EXAMINER	
			TRAN, THIEN F	
ARLINGTON, VA 22202			ART UNIT	PAPER NUMBER
			2811	
			DATE MAILED: 11/08/2002	•

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 07-01)

		Application No.	Applicant(s)			
^ 		09/802,886	HIRANO ET AL.			
• • • • • • • • • • • • • • • • • • •	Office Action Summary	Examiner	Art Unit	T		
		Thien F Tran	2811			
-	- The MAILING DATE of this communication app			ddress		
Period fo	Period for Reply					
THE M - Exten after S - If the - If NO - Failur - Any re	DRTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, apply received by the Office later than three months after the mailing d patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however within the statutory minin vill apply and will expire SI cause the application to b	er, may a reply be timely filed num of thirty (30) days will be considered time X (6) MONTHS from the mailing date of this of secome ABANDONED (35 U.S.C. § 133).	ily. communication.		
1)	Responsive to communication(s) filed on	<u> </u>				
2a)⊠	This action is FINAL . 2b)☐ Thi	is action is non-fin	al.			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
•	on of Claims					
•—	Claim(s) <u>1-20</u> is/are pending in the application		_			
	4a) Of the above claim(s) <u>2-20</u> is/are withdrawn	i from consideratio	п.			
·	Claim(s) is/are allowed.					
·	Claim(s) 1 is/are rejected.					
	Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement. Application Papers						
,	The specification is objected to by the Examine					
10) 🔲 🗆	Γhe drawing(s) filed on is/are: a)□ accep	oted or b)⊡ objected	d to by the Examiner.			
	Applicant may not request that any objection to the	•	•			
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)[☐ All b)☐ Some * c)☐ None of:					
	1. Certified copies of the priority documents					
	2. Certified copies of the priority documents	s have been receiv	red in Application No			
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) 🗌 A	cknowledgment is made of a claim for domesti	c priority under 35	U.S.C. § 119(e) (to a provisional	al application).		
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 🗆	nterview Summary (PTO-413) Paper No Notice of Informal Patent Application (P [*] Other:			
S. Patent and Tr	adomark Office			· · · · · · · · · · · · · · · · · · ·		

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DETAILED ACTION

Claim Objections

Claim 1 is objected to because of the following informalities: line 4, "layer." should be --layer;--. Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yamaguchi et al. (USPN 6,118,152) in view of lida et al. (USPN 5,747,846).

Yamaguchi et al. discloses a semiconductor device (Fig. 1) comprising an SOI substrate having a structure in which a semiconductor substrate1, an insulating layer 3 and a semiconductor layer (8, 4) are layered in this order; a partial isolation insulating film (13a) formed in a main surface of said semiconductor layer; a first semiconductor element (transistor Q1) formed in an element formation region defined by said partial isolation insulating film in said semiconductor layer; a ground line 19a; and a first complete isolation insulating film 6 formed throughout a portion below said ground line. Yamaguchi et al. does not explicitly disclose an interlayer insulating film formed on said first semiconductor element and said partial isolation insulating film. However, it is old and well known in the art as disclosed by lida et al. to form an interlayer

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insulating film on the first semiconductor element and the partial isolation insulating film before forming the ground line 19a so that the interlayer insulating film acts as a protection layer covering the transistor Q1 and isolating the gate electrode from being short with the ground line 19a and preventing the gate electrode and the semiconductor layer from being exposed and contaminated with impurities during the fabrication process. Iida et al. discloses an interlayer insulating film 19 formed on a first semiconductor element (Transistor Ts) and a partial isolation insulating film 8. Therefore, forming the conventional feature, an interlayer insulating film on the first semiconductor element and the partial isolation film as a protection insulating layer would have been obvious modification.

Response to Arguments

Applicant's arguments with respect to claim 1 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory

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period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thien F Tran whose telephone number is (703) 308-4108. The examiner can normally be reached on 8:00AM - 4:30PM Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on (703) 308-2772. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9318 for regular communications and (703) 872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

November 6, 2002

TOM THOMAS SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800